

	1		60
Human	MATAGGGSGADPGSRGLLRLLSFCVLLAGLCRGNSVERKIYIPLNKTA	PCVRLLNATHQI	
Mouse	MATTRGGSGPDPGSRGLL-LLSFSVVL	LAGLCGGNSVERKIYIPLNKTA	PCVRLLNATHQI
Drosophila	MEMR-----LNAASIWLL-ILSYGATIAQGER---	TRDKMYEPIGG-ASCFRR	LNNGTHQT
C.elegans	-----MKKWLV---IVLIIAGIRCDGFS	DQVFRTLFIGEGNAC	YRTFNKTHEF
	61		114
Human	GCQSSISGDTGVIHVVEKEEDLQWVLT	DG----	P--NPPYMVLL
Mouse	GCQSSISGDTGVIHVVEKEEDLQWVLT	DG----	P--NPPYMVLL
Drosophila	GCSSTYSGSVGVLLHLINVEADLEFLL	SS----	P--SPPYAPMI
C.elegans	GCQANRENENGLIVRIDKQEDFKNLD	SCWNSFY	PKYS
	117		168
Human	TSRIAGLAVSLTK----	P-SPASGFSPSVQCPNDG	FGVYSNSYGPEFAHCREIQWNSLG-
Mouse	TSRIAGLAVTLAK----	P-NSTSSFSPSVQCPNDG	FGIYSNSYGPEFAHCKKTLWNELG-
Drosophila	GPKNISVLLINR----	T-NQMKQFSHELNC	PNQYSGLNSTS-ETCDASNP
C.elegans	-KCLSGIVLYNSGESIHPGDESTAASHDA	EC	PNAASDYLLQDKNEEYCERKINSRGAITR
	171		228
Human	NGLAYEDFSFPIFILLEDENETKVIKQCYQ	DHNL	SQNGSAPTFFPLCAMQLFSHMHAVISTA
Mouse	NGLAYEDFSFPIFILLEDENETKVIKQCYQ	DHNL	LGQNGSAPSFPLCAMQLFSHMHAVISTA
Drosophila	TGLLHEDFPFPIYYIADLDQVTKLEKCFQ	DFNNHNYETHALRSLCAVEVK	SFMSAAVNT
C.elegans	DGLMKIDWRIQMVFIDNSTDLEIEKCYSM	FNKPKEDGSSGYPYCGMS	FRLANMAAGNSE
	232		275
Human	TCMRR-SS----	IQSTFSIN-PEIVCDPLSDYNVWSMLK	P-----INTTGT
Mouse	TCMRR-SF----	IQSTFSIN-PEIVCDPLSDYNVWSMLK	P-----INTSVGLEP--DVRV
Drosophila	VCMR-R-TN----	FINNLGG---SKYCDPLEGRNVSP	PCTPESQQSETTLETVHT--NEKF
C.elegans	ICYRRGKNDAKLFQMNIDSGDAPQLCGAM	HS	DNIFAFPTP-----IPTSP
	278		330
Human	VVAATRLDSRSFFWNVAPGAESAVASFVT	QLAAAEAL----	QKAPDVTTL-PRNVMFVFF
Mouse	VVAATRLDSRSFFWNVAPGAESAVASFVT	QLAAAEAL----	HKAPDVTTL-SRNVMFVFF
Drosophila	ILVTCRLDTTTFMFDGVGLGAMDSLMGFA	VFTHVAYLLK---	QLLPQSKD-LHNVLFVTF
C.elegans	MMVTARMDSFGMIPEISVGEVSVLTSIIS	VLAAARSMGTQIEKWQASNT	SNRNVFFFAFF
	331		384
Human	QGETFDYIGSSRMVYDMEKGKFP----	VQLENVD--SFVELGQVALRTS	LELWMHTDPVS
Mouse	QGETFDYIGSSRMVYDMENGKFP----	VRLNID--SFVELGQVALRTS	LDLWMHTDPMS
Drosophila	NGESYDYIGSQRFVYDMEKLQFP----	TESTGTPPIAFDNIDF	MLDIGTLDDISNIKLHA
C.elegans	NGESLDYIGSGAAAYQMENGKFPQ	MIRSDRTHIPIRPNELDYILEV	QQIGVAKGRKYYV

FIGURE 1A

Human	331	QGETFDYIGSSRMVYDMEKGKFP----VQLENVD--SFVELGQVALRTSLELWMHTDPVS	384
Mouse		QGETFDYIGSSRMVYDMENGKFP----VRLENID--SFVELGQVALRTSLDLWMHTDPMS	
Drosophila		NGESYDYIGSQRFVYDMEKLQFP----TESTGTPPIAFDNIDFMLDIGTLDDISNIKLHA	
C.elegans		NGESLDYIGSGAAAYQMENGKFPQMIRSDRTHIHPIRPNELDYILEVQQIGVAKGRKYYV	
	385		439
Human		QK-NESVRN---QVEDLLATLEKSGAGVPAVILRRPNQSQPLPPSSLQRFLR-ARNISGV	
Mouse		QK-NESVKN---QVEDLLATLEKSGAGVPEVVLRLRAQSQALPPSSLQRFLR-ARNISGV	
Drosophila		LN-GTTLAQ---QILERLNYYAKS-PRYGFNLNIQSEMSAHLPP TSAQSFLRRDPNFNAL	
C.elegans		HVDGERYQQNKQTQDRVIDRIERGLRSHAFDLEKPSGSGDRVPPASWHSFAKADAHVQSV	
	440		491
Human		VLADHSGAFHNKYYQSIYDTAENINVSYP----EWLSPEEDLN FVTD T----AKALADVA	
Mouse		VLADHSGSFHNRYQSIYDTAENINVTYP----EWQSPPEEDLN FVTD T----AKALANVA	
Drosophila		ILNARP---TNKYHSTYDDADNVDFTYANTSKDFTQLTEVNDFKSLNPDSLQMKVRNVS	
C.elegans		LLAPYG---KEYEYQRVNSILDKNEWTED----EREKAIQEIEAVSTA---ILAAAADYV	
	492		550
Human		TVLGRALYELAGGTNFSDTVQADPQTVTRLLYG-FLIKANNSWFQ SILRQDLRSYLG DGP	
Mouse		TVLARALYELAGGTNFSSSIQADPQTVTRLLYG-FLVRANNSWFQ SILKHDLRSYLD DRP	
Drosophila		SIVAMALYQTITGKEYTGTKVANPLMADEFLYC-FLQSADCPLFKAASYPGSQ--LTNLP	
C.elegans		GVETDEVVAKVD-KKLITTFDCLITSNFWFDCDFMQKLDGGRYHKL FNSYGFNQKSTYI	
	551		608
Human		LQHYIAVS--SPTNTTYVVQYALANLTGTVVNLTREQCQDPSKVPSENKDLYEYSWVQGP	
Mouse		LQHYIAVS--SPTNTTYVVQYALANLTGKATNLTREQCQDPSKVPNESKDLYEYSWVQGP	
Drosophila		PMRYISVLGGSQESSGYTYRLLGYLLSQLQPD IHRDNCTD---LP-----LHYFAG----	
C.elegans		SMESHTAF---PTVLHWLTI FALGSDKETLN VKSEKSCSHLGQFQ----AMYTYTWQPNP	
	609		665
Human		LHSNETDRLPRCVRSTARLARALSPAFELS---QWSSTEYSTWTESRWKDIRARIFLIAS	
Mouse		WNSNRTERLPQCVRSTVRLARALSPAFELS---QWSSTEYSTWAESRWKDIQARIFLIAS	
Drosophila		FN-N-----IGECRLTTQNYSHALSPAFLIDGY-DWSSGMYSTWTESTWSQFSARIFLRPS	
C.elegans		YTGN-----FSCLSAIVKKVMVSPA VDSQTPEEEMNTRYSTWMESVYIIIESVNLYLMED	
	666		709
Human		KELELITLTVGFG-ILIFSLIVTYCINAKADVLF IAPREPGAVSY-	
Mouse		NELEFITLIVGFS-TLVFSLIVTYCINAKADVLFVAPREPGAVSY-	
Drosophila		NVHQVTTL SVGIV-VLIISFCLVYIISSRSEVLFEDLPASNAALFG	
C.elegans		ASFEYTMILIAVISALLSIFAVGRCSETTFIVDEGEPA AEGGEPL-	

FIGURE 1B